

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

				
Applicant's or agent's file reference P206PC00	FOR FURTHER ACTIO	TION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day	ing date (day/month/year) Priority date (day/month/year)		
PCT/SE00/00781	26.04.2000		30.04.1999	
International Patent Classification (IPC) o	r national classification and I	PC7		
ногј 3/24, ногк 17/44				
Applicant				
ABB AB ET AL				
This international preliminary example 1.	amination report has been preparation to Arrive	pared by this Inte	rnational Preliminary Examining	
Authority and is transmitted to the	e applicant according to Artic	ae 30.	• •	
2. This REPORT consists of a total	of 5 sheets, in	cluding this cove	r sheet.	
This report is also accompa	anied by ANNEXES, i.e., shee	ets of the descript	tion, claims and/or drawings which have	
been amended and are the	basis for this report and/or she	ets containing re	ctifications made before this Authority	
(see Rule 70.16 and Section	n 607 of the Administrative Ir	istructions under	the PC1).	
These annexes consist of a total of	of sheets.			
This report contains indications r	elating to the following items:			
I Basis of the report	_			
□ Priority				
, L. '	of opinion with regard to nove	lty, inventive ste	p and industrial applicability	
IV Lack of unity of inv			-	
		rd to novelty, inv	rentive step or industrial applicability;	
	ations supporting such statem		•	
VI Certain documents of	cited			
VII Certain defects in th	VII Certain defects in the international application			
VIII Certain observations	s on the international applicati	on		
	In	ate of completion	a of this report	
Date of submission of the demand	D	ate of completion	i of this report	
08.11.2000	1	8.04.200	1	
Name and mailing address of the IPEA/S		uthorized officer	•	
Patent- och registreringsverket Box 5055	17978			
S-102 42 STOCKHOLM			arieta/MN 8-782 25 00	

Form PCT/IPEA/409 (cover sheet) (January 1998)



International application No.	
PCT/SE00/00781	

I. Bas	is of the report
1. With	regard to the elements of the international application:*
\boxtimes	the international application as originally filed
	the description:
لـــا	pages , as originally filed
	pages, filed with the demand
	pages, filed with the letter of
	the claims:
	pages, as originally filed
	pages, as amended (together with any statement) under article 19
	pages , filed with the demand
	pages, filed with the letter of
	the drawings:
	pages, as originally filed
	pages, filed with the demand
	pages, filed with the letter of
	the sequence listing part of the description:
	pages, as originally filed
	pages, filed with the demand pages, filed with the letter of
the ir Thes	regard to the language, all the elements marked above were available or furnished to this Authority in the language in which iternational application was filed, unless otherwise indicated under this item. e elements were available or furnished to this Authority in the following language English which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3). regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international minary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. The amendments have resulted in the cancellation of:
in ti and	the description, pages the claims, Nos. the drawings, sheet/fig This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2 (c)).** lacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to his report as "originally filed" and are annexed to this report since they do not contain amendments (Rules 70.16 70.17). replacement sheet containing such amendments must be referred to under item I and annexed to this report.
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

NO

PCT/SE00/00781

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
	Novelty (N)	Claims Claims	1-62	YES NO	
	Inventive step (IS)	Claims Claims	1-62	YES NO	
	Industrial applicability (IA)	Claims Claims	1-62	YES	

2. Citations and explanations (Rule 70.7)

The claimed invention relates to a stabilizer in an electric power system that supplies electric power via power line terminal by changing rotational speed of the rotor of electrical main machine. The stator windings (14) electrical main machine (2), are connected to electric power network terminals. A current converter (18)is connected between rotor windings (16)of the main machine regulating machine (20) which are operated as independent voltage sources. Since a rotating machine is used in a stabilizer, the stabilizer can have large energy storage in rotating shaft that can be used for transient input and output of active power for damping power oscillations in the electric power network. The rotating stabilizer can compensate for asymmetric operation. The stabilizer is smaller, flexible and simpler construction. The overload of stabilizer performed in short time, which makes it possible to maintain nominal power, thereby cost reduction is achieved. By directly monitoring temperatures in stator and rotor windings, overload utilization of the main machine can be performed temporarily at large power transmission, that far exceed the power rating without risking any damages to the machine.

The following documents were cited in the International Search Report:

- D1) US 3671850 A
- D2) US 4812730 A
- D3) US 4723106 A
- D4) WO 9834312 A1

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE00/00781

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V

generator field winding. An optical transmission technique is used for communicating gate and sync signals between stationary and rotating components. The generator is responsive to loads, the control device includes a device on the rotor for producing a synchronizing signal related to a condition of the exciter power, and a device for transmitting the sync. signal from the rotor to the stationary part.

Document D4 discloses a synchronous machine, e.g. synchronous generator in an electric power network. The synchronous machine has power and/or voltage control. Its stator winding comprises a high-voltage cable with solid insulation, and a having a thermally based rotor current intersecting with a thermally based stator current limit in a capability graph at a power factor considerably below the rated power factor or having the thermally based stator current limit in the capability graph. A set of temperaturedetermining members or and/or current voltage measuring devices are provided for limiting the currents in order to prevent thermal damage. It avoids voltage collapse in power system.

methods and/or arrangements that are disclosed documents D1 - D4 show only the general state of the art of the claimed invention. None of these documents discloses any method or arrangement that solve the problems associated with providing stabilizers with sufficient energy storage resources and than can compensate for both reactive and active power, in a flexible way. Furthermore, none of these documents disclose any power system stabilizer, as defined in claims 1 - 26, or any power network, as defined in claims 27 - 52, or any method for stabilizing the voltage in a power system, as defined in claims 53 - 62

Neither/nor of the cited documents D1 - D4, whether considered alone or in combination, suggest a solution according to the present invention as defined in claims 1 - 62. Therefore, it can be conclude that a man skilled in the art, being faced with the problems described above and having knowledge of the cited documents, would not know how to modify and/or improve the methods and/or arrangements so that would lead to a method and/or an apparatus, as the one claimed in the present application.

Therefore, the invention according to claims 1 - 62 is novel (N), is considered to involve an inventive step (IS) and is considered to have industrial applicability (IA).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE00/00781

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V

Document D1 discloses an electric generator control system with radio feedback loop. The embodiments include an exciting generator and a power generator. Each of the generators includes a common tubular rotor. The armature of the exciting generator is maintained within the rotor and is fed through a control rectifier to the field of the power generator, which is also maintained within the rotor. The output voltage of the generator is sampled for modulation of transmitter, which delivers power to a transmitting antenna. A receiving means maintained within the tubular rotor receives demodulates the the signal from transmitter. demodulated signal, together with the output of the field generator armature is applied to the control elements of the control rectifier and thus determines the intensity of the power generator field and, correspondingly, the output of the generator. It provides power а control system relatively high response time facilitate so as to accommodation to transient and fluctuating loads.

Document D2 discloses a variable speed motor-generator unit for water turbine-pump units that uses firing control frequency converter in energizing circuit for phase synchronization with mains network. The motor/generator unit has a rotor with primary and secondary windings (1P,1S). The primary winding (1P) is coupled to the electrical network (5) via a main circuit (100), part of which is coupled to an energizing circuit (200) for the secondary winding (1S). The energizing circuit (200) contains thyristor a frequency with a fixing angle determined by a phaseconverter (4) shifting control (3) in response to the difference between the network frequency and a frequency signal dependent on the rotation of the load (6). A synchronizing device (7) provides frequency signal corresponding to the network frequency during normal operation and maintains the prior frequency signal upon failure of the mains.

Document D3 discloses a brushless generator exciter power control apparatus. The exciter power control apparatus for an electrical generator comprises at least one exciter winding on the generator rotor and constant-amplitude exciter fields supply. An apparatus, responsive to the exciter field supply includes an AC exciter power in the exciter winding. A control device is responsive to an output of the generator for controlling a portion of the exciter power fed to the

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WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

 (51) International Patent Classification 7:
 H02J 3/24, H02K 17/44, H02P 9/10, H04B 7/00

A1

(11) International Publication Number:

WO 00/67358

(43) International Publication Date:

9 November 2000 (09.11.00)

(21) International Application Number:

PCT/SE00/00781

(22) International Filing Date:

26 April 2000 (26.04.00)

(30) Priority Data:

 9901553-9
 30 April 1999 (30.04.99)
 SE

 9903044-7
 27 August 1999 (27.08.99)
 SE

 9904478-6
 8 December 1999 (08.12.99)
 SE

(71) Applicant (for all designated States except US): ABB AB [SE/SE]; S-721 83 Västerås (SE).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): GERTMAR, Lars [SE/SE]; Humlegatan 6, S-722 26 Västerås (SE). NYSVEEN, Arne [NO/NO]; Vassbunnveien 12, N-1388 Borgen (NO). LÖF, Per-Anders [SE/SE]; Timrågatan 84, S-162 62 Vällingby (SE). NESTLI, Tom, Fagernes [NO/NO]; Åsveien 11A, N-1472 Fjellhamer (NO).
- (74) Agents: HEDBERG, Åke et al.; Aros Patent AB, P.O. Box 1544, S-751 45 Uppsala (SE).

(81) Designated States: AE, AG, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, DZ, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR (Utility model), KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

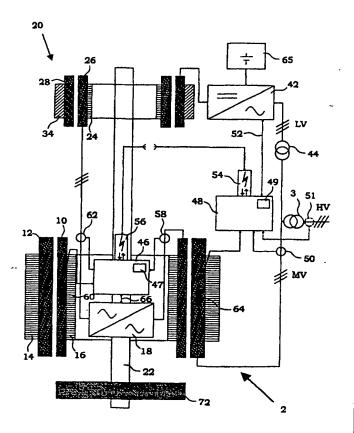
Published

With international search report, In English translation (filed in Swedish).

(54) Title: ROTATING POWER SYSTEM STABILIZER

(57) Abstract

In the invention, electrical machines (2) with variable rotational speed are utilised as stabilisers in an electric power network. The motion of the rotor (10) corresponds to a certain kinetic energy, and this kinetic energy is used as energy storage for the stabiliser. The electrical machine (2) and its rotational speed are regulated by controlling the current that is sent through the rotor (10). The voltage source and the control means (18) for this are supplied by power from a source, which is independent of the voltage of the electric power network. The voltage source comprises preferably a brushless regulating machine (20) arranged at the same shaft (22) as the electrical main machine (2). By further directly monitoring temperatures in stator (14) and rotor (16) windings, the electrical main machine (2) may temporarily be utilised for large power transmissions, which by far exceed the nominal power.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 00/00781

A. CLASS	IFICATION OF SUBJECT MATTER				
	102J 3/24, H02K 17/44, H02P 9/10, International Patent Classification (IPC) or to both nat	H04B 7/00 ional classification and IPC			
	S SEARCHED comentation searched (classification system followed by	classification symbols)			
	ion searched other than minimum documentation to the	extent that such documents are included in	the fields searched		
	I,NO classes as above				
, , ,	ata base consulted during the international search (name	of data base and, where practicable, search	n terms used)		
1,,cert/,,iie di					
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	ropriate, of the relevant passages	Relevant to claim No.		
A	US 3671850 A (WALTER E. MEHNERT 20 June 1972 (20.06.72), col line 39 - column 4, line 3	ET AL), umn 1,	1-62		
A	 US 4812730 A (HIROTO NAKAGAWA ET 14 March 1989 (14.03.89), co line 6 - column 6, line 61	AL), lumn 3,	1-62		
A	 US 4723106 A (IRVING A. GIBBS ET 2 February 1988 (02.02.88), line 6 - column 2, line 34; line 52 - column 4, line 2	1-16,27-42, 53-62			
X Furth	ner documents are listed in the continuation of Box	C. See patent family anne	x.		
"A" docume	i categories of cited documents: ent defining the general state of the art which is not considered of particular relevance	"I" later document published after the in date and not in conflict with the appl the principle or theory underlying the	ication hut cited to understand c invention		
"L" docume	cited to establish the publication date of another citation or other				
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than					
the priority date claimed "&" document member of the same patent family					
Date of th	Date of the actual completion of the international search Date of mailing of the international search report 2 6 -07- 2009				
3 July	2000	Authorized officer			
Swedish Box 5055	I mailing address of the ISA/ Patent Office 5, S-102 42 STOCKHOLM	ANTONIO FARIETA/EE			
Facsimile	Facsimile No. + 46 8 666 02 86 Telephone No. + 46 8 782 25 00				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/SE 00/00781

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JS 3671850 A	20/06/72	NONE	
JS 4812730 A	14/03/89	CA 1266507 A DE 3711657 A,C JP 1965876 C JP 6095840 B JP 62236398 A	06/03/90 15/10/87 25/08/95 24/11/94 16/10/87
JS 4723106 A	02/02/88	CN 1007394 B DE 3750146 D,T EP 0258760 A,B JP 63059799 A	28/03/90 10/11/94 09/03/88 15/03/88
O 98/34312 A1	06/08/98	NONE	



From the INTERNATIONAL BUREAU

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

HEDBERG, Åke Aros Patent AB P.O. Box 1544 S-751 45 Uppsala SUÈDE

Date of mailing (day/month/year)

09 November 2000 (09.11.00)

Applicant's or agent's file reference

P206PC00

International application No.

PCT/SE00/00781

International filing date (day/month/year) | Prior

26 April 2000 (26.04.00)

IMPORTANT NOTICE

Priority date (day/month/year) 30 April 1999 (30.04.99)

Applicant

ABB AB et al

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: AG,AU,DZ,KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CN,CR,CU,CZ,DE,DK,DM,EA,EE,EP,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,NO,NZ,OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

 Enclosed with this Notice is a copy of the international application as published by the International Bureau on 09 November 2000 (09.11.00) under No. WO 00/67358

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35

From the INTERNATIONAL BUREAU

PCT

INFORMATION CONCERNING ELECTED OFFICES NOTIFIED OF THEIR ELECTION

(PCT Rule 61.3)

To:

STENBORG, Anders Aros Patent AB P.O. Box 1544 S-751 45 Uppsala SUÈDE

Date of mailing (day/month/year)

13 December 2000 (13.12.00)

Applicant's or agent's file reference

P206PC00

IMPORTANT INFORMATION

International application No.

PCT/SE00/00781

International filing date (day/month/year)

26 April 2000 (26.04.00)

Priority date (day/month/year) 30 April 1999 (30.04.99)

Applicant

ABB AB et al

1. The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following Offices of its election:

AP :GH,GM,KE,LS,MW,SD,SL,SZ,TZ,UG,ZW

EP:AT,BE,CH,CY,DE,DK,ES,FI,FR,GB,GR,IE,IT,LU,MC,NL,PT,SE

National :AG,AU,BG,CA,CN,CZ,DE,DZ,IL,JP,KP,KR,MN,NO,NZ,PL,RO,RU,SE,SK,US

2. The following Offices have waived the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:

EA:AM,AZ,BY,KG,KZ,MD,RU,TJ,TM

OA:BF,BJ,CF,CG,CI,CM,GA,GN,GW,ML,MR,NE,SN,TD,TG

National :AE,AL,AM,AT,AZ,BA,BB,BR,BY,CH,CR,CU,DK,DM,EE,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IN,IS,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MW,MX,PT,SD,

SG,SI,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW

3. The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II of the PCT Applicant's Guide.

The entry into the European regional phase is postponed until 31 months from the priority date for all States designated for the purposes of obtaining a European patent.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer:

F. Baechler

Telephone No. (41-22) 338.83.38



From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

То:		PCT			
Aros Patent AB Bangärdsgatan 8 P.O. Box 1544		NOTIFICATION OF RECEIPT OF DEMAND BY COMPETENT INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY			
751 45 UPPSALA			es 59.3(e) and 61.1(b), first sentence istrative Instructions, Section 601(a))		
		Date of mailing (day/month/year)	08 -11- 2000		
Applicant's or agent's file reference P206PC00		IMP	ORTANT NOTIFICATION		
International application No.	International filing da	te (day/month/year)	Priority date (day/month/year)		
PCT/SE00/00781	26-04-2000)	30-04-1999		
The applicant is hereby notified as the date of receipt of the dental section.	nand for international p	Preliminary Examini preliminary examinat 3-11-2000	ng Authority considers the following date ion of the international application:		
the actual date of r the date on which (Form PCT/IPEA) 3. ATTENTION: That date Consequently, the election the national phase until 3 the acts for entry into the in some Offices) (Article	of receipt is AFTER that of made in the demander of months from the price national phase must be 22). For details, see the	esponse to the invitate corrections. The expiration of 19 m and does (do) not have been does to later in the performed within 2 to PCT Applicant's Grant and the performed within 2 to PCT Applicant's Grant and the performed within 2 to PCT Applicant's Grant and the performed within 2 to PCT Applicant's Grant and the performed within 2 to PCT Applicant's Grant and the performed within 2 to PCT Applicant's Grant and the performed within 2 to PCT Applicant's Grant and the performance of	nonths from the priority date. e the effect of postponing the entry into some Offices) (Article 39(1)). Therefore, 20 months from the priority date (or later		
4. Only where paragraph 3 applie	s, a copy of this notific	ation has been sent t	o the International Bureau.		
Name and mailing address of the IP Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	EA/ Telex 17978 PATOREG-S	Authorized officer	10° llec 08-782 25 00		

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

MONNA

HEDBERG, Åke Aros Patent AB P.O. Box 1544 S-751 45 Uppsala

SUÈDE

mor in 15

Date of mailing (day/month/year) 11 September 2000 (11.09.00)	
Applicant's or agent's file reference P206PC00	IMPORTANT NOTIFICATION
International application No. PCT/SE00/00781	International filing date (day/month/year) 26 April 2000 (26.04.00)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 30 April 1999 (30.04.99)

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the
 International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise
 indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority
 document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
30 Apri 1999 (30.04.99)	9901553-9	SE	03 July 2000 (03.07.00)
27 Augu 1999 (27.08.99)	9903044-7	SE	03 July 2000 (03.07.00)
08 Dece 1999 (08.12.99)	9904478-6	SE	03 July 2000 (03.07.00)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Aimo Metcalfe

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35



ANKOM

PCT

2006 417- 30

NOTIFICATION OF RECEIPT OF RECORD COPY

(PCT Rule 24.2(a))

From the INTERNATIONAL BUREAU

To:

HEDBERG, Åke Aros Patent AB P.O. Box 1544 S-751 45 Uppsala SUÈDE

Date of mailing (day/month/year) 04 July 2000 (04.07.00)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference P206PC00	International application No. PCT/SE00/00781

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

ABB AB (for all designated States except US)

GERTMAR, Lars et al (for US)

International filing date

26 April 2000 (26.04.00)

Priority date(s) claimed

30 April 1999 (30.04.99) 27 August 1999 (27.08.99)

27 August 1999 (27.08.99) 08 December 1999 (08.12.99)

Date of receipt of the record copy by the International Bureau

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REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

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International Application No.
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Applicant's or agent's file reference P206PC00 (if desired) (12 characters maximum) TITLE OF INVENTION Rotating Power System Stabilizer Box No. I Box No. II **APPLICANT** Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is. country) of residence if no State of residence is indicated below.) This person is also inventor. Telephone No. 721 83 Västerås **SWEDEN** Facsimile No. Teleprinter No. State (that is. country) of residence: Sweden State (i.e country) of nationality: Sweden the United States the States indicated in all designated States except all designated This person is applicant \boxtimes the Supplemental Box States the United States of America of America only for the purposes of: Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (i.e. country) of residence if no State of residence is indicated below.) This person is: applicant only GERTMAR Lars applicant and inventor Humlegatan 6 722.26 Västerås inventor only (If this check-box is marked, do not fill in below.) **SWEDEN** State (that is. country) of residence: Sweden State (that is. country) of nationality: Sweden the United States the States indicated in This person is applicant all designated all designated States except the Supplemental Box the United States of America of America only States for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. M Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE The person identified below is hereby/has been appointed to act on behalf common representative □ agent of the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) Telephone No. +46 18 653050 Hedberg Åke, Hedman Anders, Kyhlberg Gunnar

Address for correspondance: Mark this check-box where no agent or common representative is/has been appointed and the

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Mrazek Werner, Stenborg Anders

Aros Patent AB P.O. Box 1544

Sweden

SE-751 45 Uppsala

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Sheet No. 2

Continuation of Box No. III	FURTHER A	PPLICANTS AND	OOR (FURTHE	R) INVENT	TORS	
If none	of the following	sub-boxes is used, i	this sheet is not t	to be include	ed in the req	juest.
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NYSVEEN Ame Vassbunnveien 12 1388 Borgen						ant only
NORWAY					invent is mark	or only (if this check-box ked, do not fill in below.)
State (that is. country) of natio	nality: Norway		State (that is. co	ountry) of res	sidence:	Norway
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LÖF Per-Anders Timrågatan 84					□ applica	ant and inventor
162 62 Vällingby SWEDEN				į	invento	or only (if this check-box
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NESTLI Tom Fagernes					applica	ant only
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Sheet No.

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Box No. VI PRIORITY CLAIM			Further priority claims are indicated in the Supplemental Box.			
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of earlier application (day/month/year)	of earlier applic	ation	national application: country	regional application:* regional Office	international application: receiving Office	
item (1) 30 April 1999	9901553-9		Sweden			
item (2) 27 August 1999	9903044-7		Sweden			
8 December 1999	9904478-6		Sweden			
of the earlier application(s	s) (only if the earlier ternational application an ARIPO application Industrial Property for	application on is the re on, it is mane which that	to the International Bureau in was filed with the Office we eceiving Office) identified ablatory to indicate in the Supple earlier application was filed (hich for the vove as item(s): (1), (2) a emental Box at least one count	ry party to the Paris	
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WPI C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
			1-38
A	US 5321308 A (A.W. JOHNCOCK), 14 (14.06.94), see whole docume		1-30
A US 5264778 A (D.S. KIMMEL ET AL), 23 November 1993 1-38 (23.11.93), see whole document			1-38
A	US 4245182 A (H. AOTSU ET AL), 1 (13.01.81), see whole docume	3 January 1981 ent	1-38
Furth	ler documents are listed in the continuation of Box	C. X See patent family anne	х.
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aternational application No.

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Patent document cited in search report			Publication date	Patent family Publication member(s) date
US	5321308	A	14/06/94	NONE
US	5264778	A	23/11/93	NONE
US	4245182	Α	13/01/81	CA 1105558 A 21/07/81 DE 2813503 A,C 12/10/78 JP 53120117 A 20/10/78

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